

WHAT IS CLAIMED IS:

1. A content transmitting device comprising:

network communication process means for transmitting and receiving data via a network;

send-content generating means for supplying said network communication device with a content to be transmitted to a content receiving device connected via said network;

authenticating means for receiving an authentication request from said content receiving device and authenticating said authentication request, and issuing in return an authentication request to said content receiving device;

encrypting means for generating key information by key information generated based on information obtained by performing an authentication process by said authenticating means, and carrying out an encryption process of a content to be transmitted to said content receiving device, by using said key information;

timer means for measuring a time from transmission of an authentication request to said content receiving device or a time from transmission of a response to said authentication request from said content receiving device until arrival of acknowledgment of receipt from said content receiving device,

wherein when a measured result by said timer means is larger than a predetermined value, the content

is not transmitted to said content receiving device.

2. A content transmitting device according to Claim 1, wherein when the measured time by said timer means from transmission of said authentication request to said content receiving device until arrival of acknowledgement of receipt by said content receiving device is larger than a predetermined value, said authenticating means decides that the authentication of said content receiving device is a failure.

3. A content transmitting device comprising:  
authenticating means for, when transmitting a content to a content receiving device connected via a network, receiving an authentication request from said content receiving device and authenticating said authentication request, and issuing in return an authentication request to said content receiving device; and

timer means for measuring a time from transmission of an authentication request to said content receiving device until arrival of acknowledgement of receipt by said content receiving device,

wherein when a measured result by said timer means is larger than a predetermined value, said content is not transmitted to said content receiving device.

4. A content transmitting device comprising:  
authenticating means, when transmitting a content to a content receiving device connected via a

network, for receiving an authentication request from said content receiving device and making a pass/failure decision on authentication of said authentication request, and issuing in return an authentication request to said content receiving device; and

timer means for measuring a time from transmission of a response to the authentication request from said content receiving device until arrival of acknowledgement of receipt,

wherein when the measured result by said timer means is larger than a predetermined value, said content is not transmitted to said content receiving device.

5. A content receiving device comprising:

network communication process means for transmitting and receiving data over a network;

content receiving process means for receiving from said network communication process means a content transmitted by a content transmitting device connected via the network;

authenticating means for issuing an authentication request to said content transmitting device and making a pass/failure decision on authentication of the authentication request received from said content transmitting device;

decrypting means for generating key information by key information generated based on information obtained by performing an authentication

process by said authenticating means, and performing a decryption process of a content from said content transmitting device by using said key information; and

timer means for measuring a time from transmission of an authentication request to said content transmitting device or a time from transmission of a response to the authentication request of said content transmitting device until arrival of acknowledgement of receipt from said content transmitting device,

wherein when a measured result by said timer means is larger than a predetermined value, the content is not received from said content transmitting device.

6. A content receiving device according to Claim 5, wherein a measured result at said timer means of a time from when said authentication request is sent to said content transmitting device until the arrival of acknowledgement of receipt from said content transmitting device is larger than a predetermined value, said authenticating means decides that the authentication means decides that the authentication of said content transmitting device is a failure.

7. A method for transmitting a content between a content transmitting device and a content receiving device connected via a network, wherein in said content transmitting device, said content transmitting method comprises the steps of:

authentication of receiving an authentication

request from said content receiving device,  
authenticating said authentication request, and issuing  
in return an authentication request to said content  
receiving device;

encryption of generating key information by  
key information generated based on information obtained  
by performing said authentication step, and performing  
an encryption process of a content transmitted to said  
content receiving device by said key information;

measuring a time from transmission of an  
authentication request to said content receiving device  
or a time from transmission of a response to said  
authentication request from said content receiving  
device until arrival of acknowledgement of receipt from  
said content receiving device,

wherein in said content receiving device, the  
content transmitting method comprises the step of:

authentication of issuing an authentication  
request to said content transmitting device, and making  
a pass/fail decision on the authentication of the  
authentication request received from said content  
transmitting device;

decryption of generating key information by  
key information generated based on information obtained  
by performing said authentication process, and  
decrypting a content from said content transmitting  
device by said key information;

measuring a time from transmission of an

authentication request to said content transmitting device or a time from when transmission of a response to the authentication request of said content transmitting device until arrival of acknowledgement of receipt from said content transmitting device,

wherein when a measured result by said content transmitting device or a measured result by said content receiving device is larger than a predetermined value, said content transmitting device does not transmit a content to said content receiving device.

8. A content transmitting method in a content transmitting device for transmitting a content to a content receiving device connected via a network, said method comprising the steps of:

when transmitting a content, receiving an authentication request from said content receiving device and authenticating said authentication request, and issuing in return an authentication request to said content receiving device; and

measuring a time from when the authentication request is transmitted to said content receiving device until arrival of acknowledgement of receipt,

wherein when a measured result is larger than a predetermined value, said content transmitting device does not transmit the content to said content receiving device.

9. A method for transmitting a content in a

content transmitting device for transmitting a content to a content receiving device connected via a network, said method comprising the steps of:

when transmitting a content, receiving an authentication request from said content receiving device and authenticating said authentication request, and issuing in return an authentication request to said content receiving device; and

measuring a time from when a response is transmitted to said authentication request from said content receiving device until arrival of acknowledgement of receipt from said content receiving device,

wherein when a measured result is larger than a predetermined value, said content transmitting device does not transmit the content to said content receiving device.

10. An information transmitting device comprising:

authenticating means for, when transmitting information an information receiving device connected via a network, receiving an authentication request from said information and authenticating said authentication request, and issuing in return an authentication request to said information receiving device; and

time measuring means for measuring a time from when the authentication request is transmitted to said information receiving device until arrival of

acknowledgement of receipt from said information receiving device,

wherein when a measured result by said time measuring means is larger than a predetermined value, information is not transmitted to said information receiving device.

11. An information transmitting device comprising:

authenticating means for, when transmitting information an information receiving device connected via a network, receiving an authentication request from said information and authenticating said authentication request, and issuing in return an authentication request to said information receiving device; and

time measuring means for measuring a time from when a response is transmitted to said authentication request from said information receiving device until arrival of acknowledgement of receipt from said information receiving device,

wherein when a measured result by said time measuring means is larger than a predetermined value, information is not transmitted to said information receiving device.

12. An information receiving device comprising:

network transmission process means for transmitting and receiving data via a network;

information receiving process means for receiving from said network transmission process means



information transmitted from an information transmitting device connected via said network;

authenticating means for issuing an authentication request to said information transmitting device to said information transmitting device and authenticating said authentication request from said information transmitting device;

encrypting means for generating key information by key information generated based on information obtained by performing an authentication process by said authenticating means, and decrypting information from said information transmitting device by said key information; and

time measuring means for measuring a time from transmission of said authentication request to said information transmitting device or a time from transmission of a response to the authentication request from said information transmitting device until arrival of acknowledgement of receipt from said transmitting device,

wherein when a measured result by said time measuring means is larger than a predetermined value, information is not received from said information transmitting device.